THAT WHICH IS CLAIMED:

- 1. A method of constructing a system for attenuating a pressure blast and mitigating blast damage to a structure, the method comprising:
- determining a maximum initial pressure P_i against which the structure is to be protected;

determining an acceptable pressure P_f to which the structure may be subjected; selecting an attenuation material comprised of particles having a radius r, a mass density ρ_p , and a three-dimensional packing factor F;

determining a minimum thickness D of a particle mist of the attenuation material required to reduce the initial pressure to the acceptable pressure, said determining step comprising determining the minimum thickness D as follows:

$$D = 1.24 \frac{r}{F^{\frac{11}{12}}} \left(\frac{\rho_p}{\rho_a} \right)^{\frac{1}{4}} \left[\ln \left(\frac{P_i}{P_f} \right) \right]^{\frac{1}{2}}$$
; and

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mounting a delivery system to the exterior surface of the structure, said
delivery system being capable of providing the particle mist at least as thick as the
determined minimum thickness D.

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